

#14

Sub For, PTO-1449

Docket Number
112766.199Application Number
10/029,221INFORMATION DISCLOSURE
IN AN APPLICATION

(Use several sheets if necessary)

Applicant
Short et al.Filing Date
December 21, 2001Group Art Unit
2662

Sheet 1 OF 6

U.S. Patent Documents

| EXAMINER INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
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| | 6,057,103 | 05/02/00 | Short | | | |
| | 6,054,267 | 04/25/00 | Short | | | |
| | 6,004,788 | 12/21/99 | Short | | | |
| | 5,976,862 | 11/02/99 | Kauffman et al. | | | |
| | 5,965,408 | 10/12/99 | Short | | | |
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| | 5,837,458 | 11/17/98 | Minshull et al. | | | |
| | 5,830,996 | 11/03/98 | Short | | | |
| | 5,824,514 | 10/20/98 | Kauffman et al. | | | |
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| | 5,811,238 | 09/22/98 | Stemmer et al. | | | |
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|-----------------------|--------------------|----------|--------------------|-------|----------|-------------------------------|
| EXAMINER INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
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| | 5,605,793 | 02/25/97 | Stemmer | | | |
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| | 5,389,537 | 02/14/95 | Raines et al. | | | |
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| | 5,176,995 | 01/05/93 | Sninsky et al. | | | |
| | 5,096,815 | 03/17/92 | Ladner et al. | | | |
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| | 4,959,312 | 08/25/90 | Sirotkin | | | |
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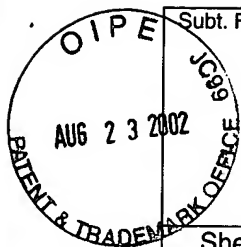
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| EXAMINER INITIAL | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION | |
| | | | | | | YES | NO |
| h | WO 99/36553 | 7/22/99 | PCT | | | | |
| | WO 98/58080 | 12/23/98 | PCT | | | | |
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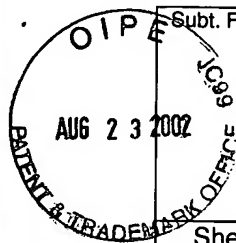
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| Subt. For, PTO-1449 | | Docket Number 112766.199 | Application Number 10/029,221 |
| INFORMATION DISCLOSURE IN AN APPLICATION (Use several sheets if necessary) | | Applicant Short et al. | |
| | | Filing Date December 21, 2001 | Group Art Unit 2662 |
| Sheet | 3 | OF | 6 |

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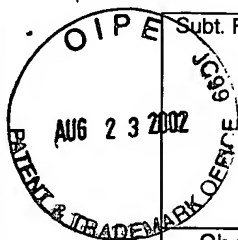
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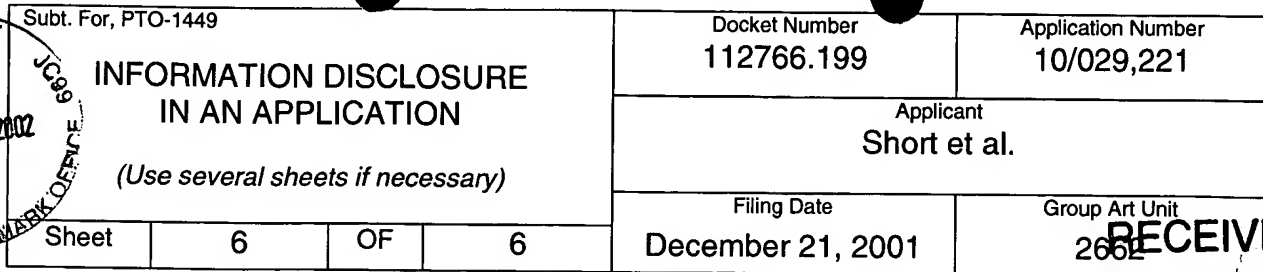
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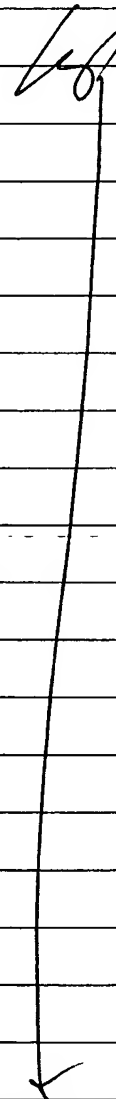



Other Documents (Including Author, Title, Date Pertinent Pages, Etc.) **Technology Center 2600**

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| FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office | Docket No. DIVER1460-14 | Serial No.: 09/535,754 |
| | Applicant(s): Short et al. | |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | Filing Date: March 27, 2000 | Group Art Unit: 1643 |

J1050 U.S. PTO
 10/029221
 12/21/01

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| EXAM. INITIALS | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB- CLASS | FILING DATE |
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|  | AA | 6,057,103 | 05/02/00 | Short | | | |
| | AB | 6,054,267 | 04/25/00 | Short | | | |
| | AC | 6,004,788 | 12/21/99 | Short | | | |
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| FORM-PTO-1449 U.S. Department of Commerce Patent and Trademark Office | Docket No. DIVER1460-14 | Serial No.: 09/535,754 |
| | Applicant(s): Short et al. | |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | Filing Date: March 27, 2000 | Group Art Unit: 1643 |

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| <i>h</i> | AT | 5,645,988 | 07/08/97 | Vande Woude et al. | | | |
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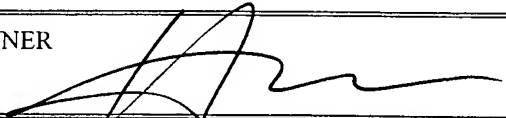
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
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| | BP | WO 96/09411 | 03/28/96 | PCT | | | |
| | BQ | WO 96/06188 | 02/29/96 | PCT | | | |
| | BR | WO 95/22625 | 08/24/95 | PCT | | | |
| J | BS | WO 95/20039 | 07/27/95 | PCT | | | |
| | BT | WO 91/16427 | 10/31/91 | PCT | | | |
| | BU | WO 90/02809 | 03/22/90 | PCT | | | |



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| FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office | Docket No. DIVER1460-14 | Serial No.: 09/535,754 |
| | Applicant(s): Short et al. | |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | Filing Date: March 27, 2000 | Group Art Unit: 1643 |

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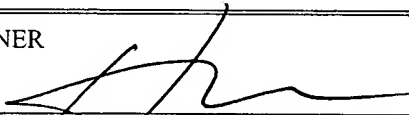
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| | BX | Cadwell and Joyce, "Randomization of Genes by PCR Mutagenesis," <i>PCR Methods and Applications</i> , 2:28-33 (1992) |
| | BY | Chen and Struhl, "Saturation mutagenesis of a yeast <i>his3</i> "TATA element": genetic evidence for a specific TATA-binding protein," <i>Proc Natl Acad Sci USA</i> 85(8) :2691-2695 (Apr 1988) |
| | BZ | Chiang et al., "Mutagenic oligonucleotide-directed PCR amplification (Mod-PCR): an efficient method for generating random base substitution mutations in a DNA sequence element," <i>PCR Methods Appl</i> 2(3) :210-217 (Feb 1993) |
| | CA | Christian et al., "Simplified methods for construction, assessment and rapid screening of peptide libraries in bacteriophage," <i>J Mol Biol</i> 227(3) :711-718 (1992 Oct 5) |
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| | CC | Cunniff and Morgan, "Analysis of heat shock element recognition by saturation mutagenesis of the human <i>HSP70.1</i> gene promoter," <i>J Biol Chem</i> 268(11) :8317-8324 (1993 Apr 15) |
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| | CI | Hill and Struhl, "Mutagenesis with degenerate oligonucleotides: an efficient method for saturating a defined DNA region with base pair substitutions," <i>Methods Enzymol</i> 155:558-568 (1987) |
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| | CK | Ihara et al., "Requirement of the Pro-Cys-His-Arg sequence for O ⁶ -methylguanine-DNA methyltransferase activity revealed by saturation mutagenesis with negative and positive screening," <i>Mol Gen Genet</i> 243(4):379-389 (1994 May 25) |
| | CL | Krishnan et al., "Direct and crossover PCR amplification to facilitate Tn5 ^{sup} F-based sequencing of λ phage clones," <i>Nucleic Acids Research</i> , 19(22):6177-6182 (1991) |
| | CM | J.W. Little, "Saturation mutagenesis of specific codons: elimination of molecules with stop codons from mixed pools of DNA," <i>Gene</i> 88(1):113-115 (1990 Mar 30) |
| | CN | Marks et al., "By-passing Immunization: Building High Affinity Human Antibodies by Chain Shuffling," <i>Biotechnology</i> 10:779-783 (July 1992) |
| | CO | Meyerhans et al., "DNA recombination during PCR," <i>Nucleic Acids Research</i> , 18(7):1687-1691 (1990) |
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| | CS | Olins et al., "Saturation mutagenesis of human interleukin-3," <i>J Biol Chem</i> 270(40) :23754-23760 (1995 Oct 6) |
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| | CU | Oliphant et al., "Cloning of random-sequence oligodeoxynucleotides," <i>Gene</i> 44(2-3) :177-183 (1986) |
| | CV | Osuna et al., "Combinatorial mutagenesis of three major groove-contacting residues of <i>EcoRI</i> : single and double amino acid replacements retaining methyltransferase-sensitive activities," 106(1) :7-12 (1991 Sep 30) |
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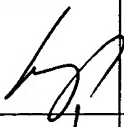


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| | Applicant(s): Short et al. | |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | Filing Date: March 27, 2000 | Group Art Unit: 1643 |

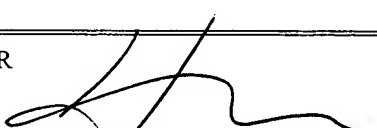
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| | DF | Soteropoulos and Perlin, "Genetic probing of the stalk segments associated with M2 and M3 of the plasma membrane H ⁺ -ATPase from <i>Saccharomyces cerevisiae</i> ," <i>J Biol Chem</i> 273 (41):26426-26431 (1998 Oct 9) |
| | DG | Soteropoulos et al., "Molecular genetic probing of energy coupling by the yeast plasma membrane proton pump," <i>Acta Physiol Scand</i> 643 :115-122 (Aug 1998) |
| | DH | W. Stemmer, "DNA shuffling by random fragmentation and reassembly: <i>In vitro</i> recombination for molecular evolution," <i>Proc. Natl. Acad. Sci. USA</i> , 91 :10747-10751 (October 1994) |
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| | DJ | Stemmer et al., "Selection of an Active Single Chain Fv Antibody from a Protein Linker Library Prepared by Enzymatic Inverse PCR," <i>BioTechniques</i> , 14 (2):256-265 (1993) |
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| | DL | Warren et al., "A rapid screen of active site mutants in glycinamide ribonucleotide transformylase," <i>Biochemistry</i> 35 (27):8855-8862 (1996 Jul 9) |
| | DM | Weiner et al., "A method for the site-directed mono- and multi-mutagenesis of double-stranded DNA," <i>Gene</i> 126 (1):35-41 (1993 Apr 15) |
| | DN | Wells et al., "Cassette mutagenesis: an efficient method for generation of multiple mutations at defined sites," <i>Gene</i> 34 (2-3):315-323 (1985) |
| | DO | White et al., "Improved thermostability of the North American firefly luciferase: saturation mutagenesis at position 354," <i>Biochem J</i> 319 (Pt 2):343-350 (1996 Oct 15) |
| a | DP | Yelton et al., "Affinity maturation of the BR96 anti-carcinoma antibody by codon-based mutagenesis," <i>J Immunol</i> 155 (4):1994-2004 (1995 Aug 15) |

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| | Applicant(s): Short et al. | |
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| FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office | Docket No.: DIVER1460-14 | Application No.: 09/535,754 |
| | Applicants: Jay M. Short | |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | Filing Date: March 27, 2000 | Group Art Unit: 1648 |

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| EXAM. INITIALS | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB- CLASS | FILING DATE |
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| EXAM. INITIALS | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB- CLASS | TRANSLATION (YES/NO) |
| <i>h6</i> | A | WO 91/12341 | 8/22/91 | PCT | <i>T</i> | <i>T</i> | |
| | B | WO 97/20078 | 6/5/97 | PCT | | | |
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| | D | WO 98/58080 | 12/23/98 | PCT | | | |
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